

&lt;110&gt; Harari, Daniel

&lt;120&gt; SPLICE VARIANTS OF ERB-B RECEPTOR LIGANDS, COMPOSITIONS AND USES THEREOF

&lt;130&gt; Harari-001

&lt;160&gt; 185

&lt;170&gt; PatentIn version 3.3

&lt;210&gt; 1

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys  
 35 40 45

Thr Glu Asn Val Pro Met Lys Val  
 50 55

&lt;210&gt; 2

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys  
 35 40 45

Gln Asn Tyr Val Met Ala Ser Phe  
 50 55

&lt;210&gt; 3

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
20 25 30

Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys  
35 40 45

Leu Pro Leu Arg Leu  
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<210> 4  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 4

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
20 25 30

Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe  
35 40 45

Ala Met Val Asn Phe  
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<210> 5  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 5

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr  
1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser  
20 25 30

His Lys His Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp  
35 40 45

Gln Phe Leu Pro Lys Thr Asp  
50 55

<210> 6  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 6

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro

20

25

30

Phe Cys Arg Cys Val Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val  
 35 40 45

Phe Leu Pro Gly Ser  
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<210> 7  
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 <212> PRT  
 <213> Homo sapiens

<400> 7

Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr  
 1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr  
 20 25 30

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg  
 35 40 45

Asp Leu Lys Trp Trp  
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<210> 8  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 8

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe  
 1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala  
 20 25 30

Cys Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp  
 35 40 45

Leu Leu Ala Val  
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<210> 9  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 9

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr  
 1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser  
 20 25 30

Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp  
 35 40 45

Leu Phe Tyr Leu  
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<210> 10  
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 <212> PRT  
 <213> Homo sapiens

<400> 10

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr  
 20 25 30

Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys Ser  
 35 40 45

Met Lys Thr His  
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<210> 11  
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 <212> PRT  
 <213> Homo sapiens

<400> 11

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser  
 20 25 30

Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser  
 35 40 45

Leu Pro Val Glu  
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<210> 12  
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 <212> PRT  
 <213> Homo sapiens

<400> 12

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr  
 1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr  
 20 25 30

Cys Arg Cys Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe  
 35 40 45

Leu Thr Val His  
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<210> 13  
 <211> 52  
 <212> PRT  
 <213> Mus musculus

<400> 13

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr  
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile  
 20 25 30

Cys Arg Cys Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr  
 35 40 45

Leu Thr Ser Tyr  
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<210> 14  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 14

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys  
 35 40 45

Thr Glu Asn Val Pro Met Lys Val Gln  
 50 55

<210> 15  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 15

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys  
 35 40 45

Gln Asn Tyr Val Met Ala Ser Phe Tyr  
 50 55

<210> 16  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 16

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys  
 35 40 45

Leu Pro Leu Arg Leu Tyr  
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<210> 17  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 17

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe  
 35 40 45

Ala Met Val Asn Phe Tyr  
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<210> 18  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 18

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr  
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser  
 20 25 30

His Lys His Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp

35

40

45

Gln Phe Leu Pro Lys Thr Asp  
50 55

<210> 19  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 19

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
20 25 30

Phe Cys Arg Cys Val Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val  
35 40 45

Phe Leu Pro Gly Ser Ser  
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<210> 20  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 20

Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr  
1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr  
20 25 30

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg  
35 40 45

Asp Leu Lys Trp Trp Glu  
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<210> 21  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 21

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe  
1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala  
20 25 30

Cys Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp  
35 40 45

Leu Leu Ala Val Val  
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<210> 22  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 22

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr  
1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser  
20 25 30

Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp  
35 40 45

Leu Phe Tyr Leu Arg  
50

<210> 23  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 23

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe  
1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr  
20 25 30

Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys Ser  
35 40 45

Met Lys Thr His Ser  
50

<210> 24  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 24

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe  
1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser  
20 25 30

Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser  
35 40 45

Leu Pro Val Glu Asn  
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<210> 25  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 25

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr  
1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr  
20 25 30

Cys Arg Cys Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe  
35 40 45

Leu Thr Val His Gln  
50

<210> 26  
<211> 53  
<212> PRT  
<213> Mus musculus

<400> 26

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr  
1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile  
20 25 30

Cys Arg Cys Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr  
35 40 45

Leu Thr Ser Tyr Ala  
50

<210> 27  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 27

Cys Lys Leu Arg Lys Gly Asn Cys Ser Ser Thr Val Cys Gly Gln Asp  
1 5 10 15

Leu Gln Ser His Leu Cys Met Cys Ala Glu Gly Tyr Ala Leu Ser Arg  
20 25 30

Asp Arg Lys Tyr Cys  
35

<210> 28  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 28

Cys Ala Phe Trp Asn His Gly Cys Thr Leu Gly Cys Lys Asn Thr Pro  
 1 5 10 15

Gly Ser Tyr Tyr Cys Thr Cys Pro Val Gly Phe Val Leu Leu Pro Asp  
 20 25 30

Gly Lys Arg Cys  
 35

<210> 29  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 29

Cys Pro Arg Asn Val Ser Glu Cys Ser His Asp Cys Val Leu Thr Ser  
 1 5 10 15

Glu Gly Pro Leu Cys Phe Cys Pro Glu Gly Ser Val Leu Glu Arg Asp  
 20 25 30

Gly Lys Thr Cys  
 35

<210> 30  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 30

Cys Ser Ser Pro Asp Asn Gly Gly Cys Ser Gln Leu Cys Val Pro Leu  
 1 5 10 15

Ser Pro Val Ser Trp Glu Cys Asp Cys Phe Pro Gly Tyr Asp Leu Gln  
 20 25 30

Leu Asp Glu Lys Ser Cys  
 35

<210> 31  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 31

Cys Leu Tyr Gln Asn Gly Gly Cys Glu His Ile Cys Lys Lys Arg Leu  
 1 5 10 15

Gly Thr Ala Trp Cys Ser Cys Arg Glu Gly Phe Met Lys Ala Ser Asp  
 20 25 30

Gly Lys Thr Cys  
35

<210> 32  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 32

Cys Ala Pro Val Gly Cys Ser Met Tyr Ala Arg Cys Ile Ser Glu Gly  
1 5 10 15

Glu Asp Ala Thr Cys Gln Cys Leu Lys Gly Phe Ala Gly Asp Gly Lys  
20 25 30

Leu Cys

<210> 33  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 33

Cys Glu Met Gly Val Pro Val Cys Pro Pro Ala Ser Ser Lys Cys Ile  
1 5 10 15

Asn Thr Glu Gly Gly Tyr Val Cys Arg Cys Ser Glu Gly Tyr Gln Gly  
20 25 30

Asp Gly Ile His Cys  
35

<210> 34  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 34

Cys Gln Leu Gly Val His Ser Cys Gly Glu Asn Ala Ser Cys Thr Asn  
1 5 10 15

Thr Glu Gly Gly Tyr Thr Cys Met Cys Ala Gly Arg Leu Ser Glu Pro  
20 25 30

Gly Leu Ile Cys  
35

<210> 35  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 35

Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met  
 1 5 10 15

Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr  
 20 25 30

Ile Gly Glu Arg Cys  
 35

<210> 36  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 36

Cys Ser Gln Pro Gly Glu Thr Cys Leu Asn Gly Gly Lys Cys Glu Ala  
 1 5 10 15

Ala Asn Gly Thr Glu Ala Cys Val Cys Gly Gly Ala Phe Val Gly Pro  
 20 25 30

Arg Cys

<210> 37  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 37

Cys Leu Ser Thr Pro Cys Lys Asn Ala Gly Thr Cys His Val Val Asp  
 1 5 10 15

Arg Arg Gly Val Ala Asp Tyr Ala Cys Ser Cys Ala Leu Gly Phe Ser  
 20 25 30

Gly Pro Leu Cys  
 35

<210> 38  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 38

Cys Leu Thr Asn Pro Cys Arg Asn Gly Gly Thr Cys Asp Leu Leu Thr  
 1 5 10 15

Leu Thr Glu Tyr Lys Cys Arg Cys Pro Pro Gly Trp Ser Gly Lys Ser  
 20 25 30

Cys

<210> 39

<211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 39

Cys Ala Ser Asn Pro Cys Ala Asn Gly Gly Gln Cys Leu Pro Phe Glu  
 1 5 10 15

Ala Ser Tyr Ile Cys His Cys Pro Pro Ser Phe His Gly Pro Thr Cys  
 20 25 30

<210> 40  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 40

Cys Gly Gln Lys Pro Arg Leu Cys Arg His Gly Gly Thr Cys His Asn  
 1 5 10 15

Glu Val Gly Ser Tyr Arg Cys Val Cys Arg Ala Thr His Thr Gly Pro  
 20 25 30

Asn Cys

<210> 41  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 41

Cys Ser Pro Ser Pro Cys Gln Asn Gly Gly Thr Cys Arg Pro Thr Gly  
 1 5 10 15

Asp Val Thr His Glu Cys Ala Cys Leu Pro Gly Phe Thr Gly Gln Asn  
 20 25 30

Cys

<210> 42  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 42

Cys Pro Gly Asn Asn Cys Lys Asn Gly Gly Ala Cys Val Asp Gly Val  
 1 5 10 15

Asn Thr Tyr Asn Cys Pro Cys Pro Pro Glu Trp Thr Gly Gln Tyr Cys  
 20 25 30

<210> 43  
 <211> 34  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

Cys Gln Leu Met Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys His Asn  
 1 5 10 15

Thr His Gly Gly Tyr Asn Cys Val Cys Val Asn Gly Trp Thr Gly Glu  
 20 25 30

Asp Cys

&lt;210&gt; 44

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

Cys Ala Ser Ala Ala Cys Phe His Gly Ala Thr Cys His Asp Arg Val  
 1 5 10 15

Ala Ser Phe Tyr Cys Glu Cys Pro His Gly Arg Thr Gly Leu Leu Cys  
 20 25 30

&lt;210&gt; 45

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

Cys Ile Ser Asn Pro Cys Asn Glu Gly Ser Asn Cys Asp Thr Asn Pro  
 1 5 10 15

Val Asn Gly Lys Ala Ile Cys Thr Cys Pro Ser Gly Tyr Thr Gly Pro  
 20 25 30

Ala Cys

&lt;210&gt; 46

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

Cys Ser Leu Gly Ala Asn Pro Cys Glu His Ala Gly Lys Cys Ile Asn  
 1 5 10 15

Thr Leu Gly Ser Phe Glu Cys Gln Cys Leu Gln Gly Tyr Thr Gly Pro  
 20 25 30

Arg Cys

&lt;210&gt; 47

<211> 32  
 <212> PRT  
 <213> Mus musculus

<400> 47

Cys Val Ser Asn Pro Cys Gln Asn Asp Ala Thr Cys Leu Asp Gln Ile  
 1 5 10 15

Gly Glu Phe Gln Cys Met Cys Met Pro Gly Tyr Glu Gly Val His Cys  
 20 25 30

<210> 48  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 48

Cys Ala Ser Ser Pro Cys Leu His Asn Gly Arg Cys Leu Asp Lys Ile  
 1 5 10 15

Asn Glu Phe Gln Cys Glu Cys Pro Thr Gly Phe Thr Gly His Leu Cys  
 20 25 30

<210> 49  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 49

Cys Ala Ser Thr Pro Cys Lys Asn Gly Ala Lys Cys Leu Asp Gly Pro  
 1 5 10 15

Asn Thr Tyr Thr Cys Val Cys Thr Glu Gly Tyr Thr Gly Thr His Cys  
 20 25 30

<210> 50  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 50

Cys Asp Pro Asp Pro Cys His Tyr Gly Ser Cys Lys Asp Gly Val Ala  
 1 5 10 15

Thr Phe Thr Cys Leu Cys Arg Pro Gly Tyr Thr Gly His His Cys  
 20 25 30

<210> 51  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 51

Cys Ser Ser Gln Pro Cys Arg Leu Arg Gly Thr Cys Gln Asp Pro Asp  
 1 5 10 15

Asn Ala Tyr Leu Cys Phe Cys Leu Lys Gly Thr Thr Gly Pro Asn Cys  
 20 25 30

<210> 52  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 52

Cys Ala Ser Ser Pro Cys Asp Ser Gly Thr Cys Leu Asp Lys Ile Asp  
 1 5 10 15

Gly Tyr Glu Cys Ala Cys Glu Pro Gly Tyr Thr Gly Ser Met Cys  
 20 25 30

<210> 53  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 53

Cys Ala Gly Asn Pro Cys His Asn Gly Gly Thr Cys Glu Asp Gly Ile  
 1 5 10 15

Asn Gly Phe Thr Cys Arg Cys Pro Glu Gly Tyr His Asp Pro Thr Cys  
 20 25 30

<210> 54  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 54

Cys Asn Ser Asn Pro Cys Val His Gly Ala Cys Arg Asp Ser Leu Asn  
 1 5 10 15

Gly Tyr Lys Cys Asp Cys Asp Pro Gly Trp Ser Gly Thr Asn Cys  
 20 25 30

<210> 55  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 55

Cys Glu Ser Asn Pro Cys Val Asn Gly Gly Thr Cys Lys Asp Met Thr  
 1 5 10 15

Ser Gly Ile Val Cys Thr Cys Arg Glu Gly Phe Ser Gly Pro Asn Cys  
 20 25 30

<210> 56  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 56

Cys Ala Ser Asn Pro Cys Leu Asn Lys Gly Thr Cys Ile Asp Asp Val  
1 5 10 15

Ala Gly Tyr Lys Cys Asn Cys Leu Leu Pro Tyr Thr Gly Ala Thr Cys  
20 25 30

<210> 57  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 57

Cys Ala Pro Ser Pro Cys Arg Asn Gly Gly Glu Cys Arg Gln Ser Glu  
1 5 10 15

Asp Tyr Glu Ser Phe Ser Cys Val Cys Pro Thr Ala Gly Ala Lys Gly  
20 25 30

...Gln Thr Cys  
35

<210> 58  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (18)..(18)  
<223> X = undefined amino acid

<400> 58

Cys Val Leu Ser Pro Cys Arg His Gly Ala Ser Cys Gln Asn Thr His  
1 5 10 15

Gly Xaa Tyr Arg Cys His Cys Gln Ala Gly Tyr Ser Gly Arg Asn Cys  
20 25 30

<210> 59  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 59

Cys Arg Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile  
1 5 10 15

Asn Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Arg Gly Thr Phe Cys  
20 25 30

<210> 60  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 60

Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn Cys Thr Asp Cys Val  
 1 5 10 15

Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe Ser Gly Ile His Cys  
 20 25 30

<210> 61  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 61

Cys Thr Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile  
 1 5 10 15

Asn Ser Phe Thr Cys Leu Cys Pro Pro Gly Phe Thr Gly Ser Tyr Cys  
 20 25 30

<210> 62  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 62

Cys Asp Ser Arg Pro Cys Leu Leu Gly Gly Thr Cys Gln Asp Gly Arg  
 1 5 10 15

Gly Leu His Arg Cys Thr Cys Pro Gln Gly Tyr Thr Gly Pro Asn Cys  
 20 25 30

<210> 63  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 63

Cys Asp Ser Ser Pro Cys Lys Asn Gly Gly Lys Cys Trp Gln Thr His  
 1 5 10 15

Thr Gln Tyr Arg Cys Glu Cys Pro Ser Gly Trp Thr Gly Leu Tyr Cys  
 20 25 30

<210> 64  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 64

Cys Glu Val Ala Ala Gln Arg Gln Gly Val Asp Val Ala Arg Leu Cys  
 1 5 10 15

Gln His Gly Gly Leu Cys Val Asp Ala Gly Asn Thr His His Cys Arg  
 20 25 30

Cys Gln Ala Gly Tyr Thr Gly Ser Tyr Cys

35

40

<210> 65  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 65

Cys Ser Pro Ser Pro Cys Gln Asn Gly Ala Thr Cys Thr Asp Tyr Leu  
 1 5 10 15

Gly Gly Tyr Ser Cys Lys Cys Val Ala Gly Tyr His Gly Val Asn Cys  
 20 25 30

<210> 66  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 66

Cys Leu Ser His Pro Cys Gln Asn Gly Gly Thr Cys Leu Asp Leu Pro  
 1 5 10 15

Asn Thr Tyr Lys Cys Ser Cys Pro Arg Gly Thr Gln Gly Val His Cys  
 20 25 30

<210> 67  
 <211> 40  
 <212> PRT  
 <213> Mus musculus

<400> 67

Cys Asn Pro Pro Val Asp Pro Val Ser Arg Ser Pro Lys Cys Phe Asn  
 1 5 10 15

Asn Gly Thr Cys Val Asp Gln Val Gly Gly Tyr Ser Cys Thr Cys Pro  
 20 25 30

Pro Gly Phe Val Gly Glu Arg Cys  
 35 40

<210> 68  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 68

Cys Leu Ser Asn Pro Cys Asp Ala Arg Gly Thr Gln Asn Cys Val Gln  
 1 5 10 15

Arg Val Asn Asp Phe His Cys Glu Cys Arg Ala Gly His Thr Gly Arg  
 20 25 30

Arg Cys

<210> 69  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 69

Cys Lys Gly Lys Pro Cys Lys Asn Gly Gly Thr Cys Ala Val Ala Ser  
 1 5 10 15

Asn Thr Ala Arg Gly Phe Ile Cys Lys Cys Pro Ala Gly Phe Glu Gly  
 20 25 30

Ala Thr Cys  
 35

<210> 70  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 70

Cys Gly Ser Leu Arg Cys Leu Asn Gly Gly Thr Cys Ile Ser Gly Pro  
 1 5 10 15

Arg Ser Pro Thr Cys Leu Cys Leu Gly Pro Phe Thr Gly Pro Glu Cys  
 20 25 30

<210> 71  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 71

Cys Leu Gly Gly Asn Pro Cys Tyr Asn Gln Gly Thr Cys Glu Pro Thr  
 1 5 10 15

Ser Glu Ser Pro Phe Tyr Arg Cys Leu Cys Pro Ala Lys Phe Asn Gly  
 20 25 30

Leu Leu Cys  
 35

<210> 72  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 72

Cys Pro Asp Ser His Thr Gln Phe Cys Phe His Gly Thr Cys Arg Phe  
 1 5 10 15

Leu Val Gln Glu Asp Lys Pro Ala Cys Val Cys His Ser Gly Tyr Val  
 20 25 30

Gly Ala Arg Cys

35

<210> 73  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 73

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys  
 35

<210> 74  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 74

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys  
 35

<210> 75  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 75

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr  
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser  
 20 25 30

His Lys His Cys Arg  
 35

<210> 76  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 76

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
 20 25 30

Phe Cys Arg  
 35

<210> 77  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 77

ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr  
 1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr  
 20 25 30

Ala Cys Lys  
 35

<210> 78  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 78

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe  
 1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala  
 20 25 30

Cys Val

<210> 79  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 79

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr  
 1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser  
 20 25 30

Cys Val

<210> 80  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 80

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr  
 20 25 30

Cys Lys

&lt;210&gt; 81

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 81

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser  
 20 25 30

Cys Met

&lt;210&gt; 82

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 82

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr  
 1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr  
 20 25 30

Cys Arg

&lt;210&gt; 83

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 83

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr  
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile  
 20 25 30

Cys Arg

<210> 84  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 84

Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr  
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile  
 20 25 30

Cys Arg

<210> 85  
 <211> 360  
 <212> PRT  
 <213> Homo sapiens

<400> 85

Thr Ala Arg Gly Ala Gly Glu Glu Phe Pro Glu Thr Cys Trp Asn Ser  
 1 5 10 15

Gly Leu Ala Arg Arg Pro Gly Ala Glu Arg Arg Arg Leu Pro Asp Asp  
 20 25 30

Gly Ser Val Ser Arg Thr Val Ile Thr Ser Pro Arg Ser Gly Cys Glu  
 35 40 45

Gly Ala Gly Gln Arg Pro Gly Arg Glu Pro Pro Ala Ala Gly Pro Ile  
 50 55 60

Asp Asp Phe Pro Gly Arg Gln Glu Gln Pro Arg Glu Pro Gly Arg Ala  
 65 70 75 80

Pro Val Pro Gly Gly Arg Thr Ala Arg Arg Val Arg Ala Ala Leu Pro  
 85 90 95

Ala Gly Asn Gly Arg Arg Pro Arg Ala Ala Arg Ala Pro Gln Arg Gly  
 100 105 110

Arg Ser Leu Ser Pro Ser Arg Asp Lys Leu Phe Pro Asn Pro Ile Arg  
 115 120 125

Ala Leu Gly Pro Asn Ser Pro Ala Pro Arg Ala Val Arg Val Glu Arg  
 130 135 140

Ser Val Ser Gly Glu Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly  
 145 150 155 160

Lys Gly Lys Lys Lys Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala  
 165 170 175

Ala Gly Ser Gln Ser Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys  
180 185 190

Ser Gln Glu Ser Ala Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr  
195 200 205

Ser Ser Glu Tyr Ser Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn  
210 215 220

Glu Leu Asn Arg Lys Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys  
225 230 235 240

Pro Gly Lys Ser Glu Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser  
245 250 255

Gly Glu Tyr Met Cys Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala  
260 265 270

Ser Ala Asn Ile Thr Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met  
275 280 285

Pro Ala Ser Thr Glu Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg  
290 295 300

Ile Ser Val Ser Thr Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr  
305 310 315 320

Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys  
325 330 335

Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser  
340 345 350

Asn Pro Ser Arg Tyr Leu Cys Lys  
355 360

<210> 86  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 86

Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu  
1 5 10 15

Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys  
20 25 30

Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys  
35 40

<210> 87

<211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 87

Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu  
 1 5 10 15

Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys  
 20 25 30

Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys  
 35 40

<210> 88  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 88

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys  
 1 5 10 15

Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser  
 20 25 30

Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys  
 65 70 75 80

Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
 115 120 125

Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu  
 130 135 140

Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
 165 170 175

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn

180 185 190  
 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
 195 200 205  
 Leu Cys Lys  
 210  
 <210> 89  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens  
 <400> 89  
 Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys  
 1 5 10 15  
 Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser  
 20 25 30  
 Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
 35 40 45  
 Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
 50 55 60  
 Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys  
 65 70 75 80  
 Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
 85 90 95  
 Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
 100 105 110  
 Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
 115 120 125  
 Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu  
 130 135 140  
 Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
 145 150 155 160  
 Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
 165 170 175  
 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn  
 180 185 190  
 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
 195 200 205

Leu Cys Lys  
210

<210> 90  
<211> 211  
<212> PRT  
<213> Mus musculus

<400> 90

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys  
1 5 10 15

Asp Arg Gly Ser Arg Gly Lys Pro Ala Pro Ala Glu Gly Asp Pro Ser  
20 25 30

Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Arg  
65 70 75 80

Asn Lys Pro Gln Asn Val Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
115 120 125

Ile Val Glu Ser Asn Asp Leu Thr Thr Gly Met Ser Ala Ser Thr Glu  
130 135 140

Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
165 170 175

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn  
180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
195 200 205

Leu Cys Lys  
210

<210> 91  
<211> 211  
<212> PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 91

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys  
 1 5 10 15

Asp Arg Gly Ser Arg Gly Lys Pro Ala Pro Ala Glu Gly Asp Pro Ser  
 20 25 30

Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Arg  
 65 70 75 80

Asn Lys Pro Gln Asn Val Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
 115 120 125

Ile Val Glu Ser Asn Asp Leu Thr Thr Gly Met Ser Ala Ser Thr Glu  
 130 135 140

Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
 165 170 175

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn  
 180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
 195 200 205

Leu Cys Lys  
 210

&lt;210&gt; 92

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 92

Met Ser Ala Ser Thr Glu Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile  
 1 5 10 15

Arg Ile Ser Val Ser Thr Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser  
20 25 30

Thr Ser Thr Thr Gly Thr Ser His Leu Ile Lys Cys Ala Glu Lys Glu  
35 40 45

Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu  
50 55 60

Ser Asn Pro Ser Arg Tyr Leu Cys Lys  
65 70

<210> 93  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (113)..(113)  
<223> X = undefined amino acid

<400> 93

Thr Arg Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly  
1 5 10 15

Glu Lys Gln Ser Leu Lys Cys Glu Ala Ala Ala Ile Asn Pro Gln Pro  
20 25 30

Ser Tyr Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp  
35 40 45

Ile Arg Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe  
50 55 60

Asn Lys Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu  
65 70 75 80

Asn Ile Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser  
85 90 95

Val Thr Thr Thr Leu Ser Ser Trp Ser Gly His Ala Gly Lys Cys Asn  
100 105 110

Xaa Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile  
115 120 125

Glu Gly Ile Asn Gln Leu Ser Cys Lys  
130 135

<210> 94  
<211> 73  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 94

Ser Ser Ser Ser Phe Asp Val Gly His Glu Gly Asp Asp Ser Trp Gly  
 1 5 10 15

Leu Gly Ile Val Ser Val Arg His Trp His Met Ser Leu Ile Pro Ser  
 20 25 30

Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn  
 35 40 45

Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile  
 50 55 60

Glu Gly Ile Asn Gln Leu Ser Cys Lys  
 65 70

&lt;210&gt; 95

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

Glu Ile Asn Ile Ile Ile Trp Tyr Tyr Phe Pro Ser Ala Trp Arg Thr  
 1 5 10 15

Cys Phe Asn Ile Ser Ser Ser Val Gly Leu Leu Leu Thr Asn Ser Tyr  
 20 25 30

Lys Phe Tyr Thr Thr Thr Tyr Ser Thr Glu Arg Ser Glu His Phe Lys  
 35 40 45

Pro Cys Arg Asp Lys Asp Leu Ala Tyr Cys Leu Asn Asp Gly Glu Cys  
 50 55 60

Phe Val Ile Glu Thr Leu Thr Gly Ser His Lys His Cys Arg  
 65 70 75

&lt;210&gt; 96

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

Asn Tyr Leu Gln Ile Lys Met Pro Thr Asp His Glu Glu Pro Cys Gly  
 1 5 10 15

Pro Ser His Lys Ser Phe Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile  
 20 25 30

Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys  
 35 40

&lt;210&gt; 97

<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 97

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
 20 25 30

Phe Cys Arg Lys  
 35

<210> 98  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 98

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
 20 25 30

Phe Cys Arg Lys  
 35

<210> 99  
 <211> 37  
 <212> PRT  
 <213> Mus musculus

<400> 99

Met Pro Thr Gly Asn Phe Leu Ser Arg Ala Ala Leu Trp Ser Gln Ala  
 1 5 10 15

Gln Val Ile Leu Pro Gln Trp Gly Asp Leu Leu Cys Asp Pro Tyr Tyr  
 20 25 30

Pro Gln Pro Ile Leu  
 35

<210> 100  
 <211> 37  
 <212> PRT  
 <213> Mus musculus

<400> 100

Met Pro Thr Gly Asn Phe Leu Ser Arg Ala Ala Leu Trp Ser Gln Ala  
 1 5 10 15

Gln Val Ile Leu Pro Gln Trp Gly Asp Leu Leu Cys Asp Pro Tyr Tyr  
 20 25 30

Pro Gln Pro Ile Leu  
35

<210> 101  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 101

Ser His Lys Ser Phe Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro  
1 5 10 15

Thr Ile Pro Ser Pro Phe Cys Arg Lys  
20 25

<210> 102  
<211> 30  
<212> PRT  
<213> Sus scrofa

<400> 102

Glu Pro Cys Gly Pro Ser His Arg Ser Phe Cys Leu Asn Gly Gly Ile  
1 5 10 15

Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys  
20 25 30

<210> 103  
<211> 30  
<212> PRT  
<213> Sus scrofa

<400> 103

Glu Pro Cys Gly Pro Ser His Arg Ser Phe Cys Leu Asn Gly Gly Ile  
1 5 10 15

Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys  
20 25 30

<210> 104  
<211> 46  
<212> PRT  
<213> Mus musculus

<400> 104

Cys Leu Phe Ala Pro Ala Asp Ser Pro Val Ala Ala Ala Val Val Ser  
1 5 10 15

His Phe Asn Lys Cys Pro Asp Ser His Thr Gln Tyr Cys Phe His Gly  
20 25 30

Thr Cys Arg Phe Leu Val Gln Glu Glu Lys Pro Ala Cys Val  
35 40 45

<210> 105

<211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 105

Asp Leu Ser Pro Ala Ser Phe Leu Ser Pro Ala Asp Pro Pro Val Ala  
 1 5 10 15

Ala Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln  
 20 25 30

Phe Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro  
 35 40 45

Ala Cys Val  
 50

<210> 106  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 106

Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser Ile Thr Lys  
 1 5 10 15

Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr  
 20 25 30

Leu Val Asp Met Ser Gln Asn Tyr Cys Arg  
 35 40

<210> 107  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 107

Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser Ile Thr Lys Cys  
 1 5 10 15

Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr Leu  
 20 25 30

Val Asp Met Ser Gln Asn Tyr Cys  
 35 40

<210> 108  
 <211> 42  
 <212> PRT  
 <213> Mus musculus

<400> 108

Val Gln Met Glu Asp Asp Pro Arg Val Ala Gln Val Gln Ile Thr Lys  
 1 5 10 15

Cys Ser Ser Asp Met Asp Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr  
 20 25 30

Leu Val Asp Met Arg Glu Lys Phe Cys Arg  
 35 40

<210> 109  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 109

Met Thr Ala Gly Arg Arg Met Glu Met Leu Cys Ala Gly Arg Val Pro  
 1 5 10 15

Ala Leu Leu Leu Cys Leu Gly Phe His Leu Leu Gln Ala Val Leu Ser  
 20 25 30

Thr Thr Val Ile Pro Ser Cys Ile Pro Gly Glu Ser Ser Asp Asn Cys  
 35 40 45

Thr Ala Leu Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser  
 50 55 60

Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln  
 65 70 75 80

Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg  
 85 90

<210> 110  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 110

Met Thr Ala Gly Arg Arg Met Glu Met Leu Cys Ala Gly Arg Val Pro  
 1 5 10 15

Ala Leu Leu Leu Cys Leu Gly Phe His Leu Leu Gln Ala Val Leu Ser  
 20 25 30

Thr Thr Val Ile Pro Ser Cys Ile Pro Gly Glu Ser Ser Asp Asn Cys  
 35 40 45

Thr Ala Leu Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser  
 50 55 60

Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln  
 65 70 75 80

Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg  
 85 90

<210> 111  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> X = undefined amino acid

<220>  
 <221> misc\_feature  
 <222> (118)..(118)  
 <223> X = undefined amino acid

<400> 111

Pro Gly Glu Lys Ala Thr Arg Pro Lys Leu Lys Lys Met Lys Ser Gln  
 1 5 10 15

Thr Gly Gln Val Gly Glu Lys Gln Ser Leu Lys Cys Glu Ala Ala Ala  
 20 25 30

Gly Asn Pro Gln Pro Ser Tyr Arg Trp Phe Lys Asp Gly Lys Glu Leu  
 35 40 45

Asn Arg Ser Arg Asp Ile Arg Ile Lys Tyr Gly Asn Gly Arg Lys Asn  
 50 55 60

Ser Arg Leu Gln Phe Asn Lys Val Lys Val Glu Asp Ala Gly Glu Tyr  
 65 70 75 80

Val Cys Glu Ala Glu Asn Ile Leu Gly Lys Asp Thr Val Gly Gly Arg  
 85 90 95

Leu Tyr Val Asn Ser Val Thr Thr Thr Leu Ser Ser Trp Ser Gly His  
 100 105 110

Ala Arg Lys Cys Asn Xaa Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly  
 115 120 125

Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Ala Pro  
 130 135 140

Gly Leu His Cys Leu Glu Leu Gly Thr Gln Ser His His Phe Pro Ile  
 145 150 155 160

Ser Ala Ser Pro Gly Ser Ser Gln Gly Ser Trp Asn Gln Leu Pro Gln  
 165 170 175

His Pro Leu Ser  
 180

<210> 112  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> X = undefined amino acid

<400> 112

Glu Ala Glu Asn Ile Leu Gly Lys Asp Thr Val Arg Xaa Arg Leu Tyr  
 1 5 10 15

Val Asn Ser Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg  
 20 25 30

Lys Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys  
 35 40 45

Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Ala His Gly Leu  
 50 55 60

His Cys Leu Glu Leu Gly Thr Gln Ser His His Phe Pro Ile Ser Ala  
 65 70 75 80

Ser Pro Gly Ser Ser Gln Gly Ser Trp Asn Gln Leu Pro Gln His Pro  
 85 90 95

Leu Ser Ala Leu Gly Gly Glu Gly Ser Pro Gly Gly Asp Ala Val Arg  
 100 105 110

Thr Pro Gly Pro Gln Ser Cys Ala  
 115 120

<210> 113  
 <211> 76  
 <212> PRT  
 <213> Mus musculus

<400> 113

Val Arg Gln Arg Arg Glu Thr Pro Ser Pro Pro Ile Ala Gly Ser Arg  
 1 5 10 15

Met Ala Arg Asn Ser Thr Gly Val Val Ile Phe Ala Ser Ser Met Ala  
 20 25 30

Met Ala Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys  
 35 40 45

Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr  
 50 55 60

Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Gly  
 65 70 75

<210> 114  
 <211> 167

&lt;212&gt; PRT

&lt;213&gt; Danio rerio

&lt;400&gt; 114

Lys Asp Cys Ala Ser Ala Pro Lys Val Lys Pro Met Asp Ser Gln Trp  
 1 5 10 15

Leu Gln Glu Gly Lys Lys Leu Thr Leu Lys Cys Glu Ala Val Gly Asn  
 20 25 30

Pro Ser Pro Ser Phe Asn Trp Tyr Lys Asp Gly Ser Gln Leu Arg Gln  
 35 40 45

Lys Lys Thr Val Lys Ile Lys Thr Asn Lys Lys Asn Ser Lys Leu His  
 50 55 60

Ile Ser Lys Val Arg Leu Glu Asp Ser Gly Asn Tyr Thr Cys Val Val  
 65 70 75 80

Glu Asn Ser Leu Gly Arg Glu Asn Ala Thr Ser Phe Val Ser Val Gln  
 85 90 95

Ser Ile Thr Thr Thr Leu Ser Pro Gly Ser Ser His Ala Arg Lys Cys  
 100 105 110

Asn Glu Thr Glu Lys Thr Tyr Cys Ile Asn Gly Gly Asp Cys Tyr Phe  
 115 120 125

Ile His Gly Ile Asn Gln Leu Ser Cys Lys Cys Pro Asn Asp Tyr Thr  
 130 135 140

Gly Glu Arg Cys Gln Thr Ser Val Met Ala Gly Phe Tyr Lys Ala Glu  
 145 150 155 160

Glu Leu Tyr Gln Asn Glu Cys  
 165

&lt;210&gt; 115

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Gallus gallus

&lt;400&gt; 115

Ala Val Gln Ser Leu Glu Leu Leu Gln Gln Thr Trp Arg Leu Ser Thr  
 1 5 10 15

Leu Gln Phe Glu Tyr Asp Arg Arg Val Ala Cys Gly Phe His Tyr Thr  
 20 25 30

Thr Thr Tyr Ser Thr Glu Arg Ser Glu His Phe Lys Pro Cys Lys Asp  
 35 40 45

Lys Asp Leu Ala Tyr Cys Leu Asn Glu Gly Glu Cys Phe Val Ile Glu  
 50 55 60

Thr Leu Thr Gly Ser His Lys His Cys Arg Ser Asn Cys Pro Ser Gly  
65 70 75 80

Val Phe Cys Trp

<210> 116  
<211> 77  
<212> PRT  
<213> Gallus gallus

<400> 116

Met Arg Thr Asp His Glu Glu Leu Cys Gly Thr Ser Tyr Gly Ser Phe  
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50 55 60

Pro Ser Cys His Leu Met Pro Ala His Phe Tyr Thr Gln  
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<210> 117  
<211> 65  
<212> PRT  
<213> Mus musculus

<400> 117

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Cys Leu Asn Gly Gly Ile Cys Ile Asp Pro Tyr Tyr Pro His Pro Phe  
20 25 30

Cys Arg Phe Tyr His Leu Phe Leu Arg His Cys Leu Leu Lys Pro Phe  
35 40 45

Val Gln Leu Gly Thr Leu Val Tyr Pro Val Phe Leu Lys Glu Leu Phe  
50 55 60

His  
65

<210> 118  
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<212> PRT  
<213> Homo sapiens

<400> 118

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Arg Lys Lys Lys Asn Pro Cys Asp Ala Glu Phe Gln Asn Phe Cys Ile  
35 40 45

His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr Cys Asn  
50 55 60

Val Ser Arg Ile Phe Pro  
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<210> 119  
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<212> PRT  
<213> Homo sapiens

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Val Ala Glu Gln Thr Pro Ser Cys Val Pro Leu Arg Lys Arg Arg Lys  
35 40 45

Arg Lys Lys Lys Glu Glu Glu Met Glu Thr Leu Gly Lys Asp Met Thr  
50 55 60

Pro Ile Asn Glu Asp Ile Glu Glu Thr Asn Ile Ala Tyr Lys Ala Met  
65 70 75 80

Lys Leu Pro Pro Gly Trp Trp Gln Ala Ala Lys Cys Leu Ala His Leu  
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Lys Met Asp Arg Met Arg Leu Arg Lys Thr Ala Ser Arg His Glu Phe  
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<400> 120

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 Gly Glu Asn Cys Thr Gly Thr Thr Pro Arg Gln Lys Val Lys Thr His  
                   65                   70                   75                   80  
 Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile His Gly Arg  
                   85                   90                   95  
 Cys Arg Phe Val Val Asp Glu Gln Thr Pro Ser Cys Met Ala Arg Leu  
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 <213> Cercopithecus aethiops (African green monkey)  
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 Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr  
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<213> Homo sapiens

<400> 122

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35 40 45

Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu Lys  
50 55 60

Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
65 70 75

<210> 123  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 123

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Ala Met Arg Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro  
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Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys  
35 40 45

Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly  
50 55 60

Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu  
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Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
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<210> 124  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 124

Gly Thr Arg Glu Ala Leu Cys Tyr Arg Cys Phe Cys Pro Leu Asn Thr  
Page 42

1 5 10 15

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20 25 30

Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys  
35 40 45

Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly  
50 55 60

Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu  
65 70 75 80

Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
85 90 95

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<400> 125

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35 40 45

Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn  
50 55 60

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Leu

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<212> PRT  
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<400> 126

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 35 40 45  
 Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile Glu Gly Pro Ile  
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 Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys  
 65 70 75 80  
 Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys  
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 Arg Pro Leu  
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<400> 127

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35 40 45

His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly Ala Cys  
50 55 60

Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu Lys Leu  
65 70 75 80

Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
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&lt;210&gt; 141

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

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<212> DNA
<213> Homo sapiens

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<213> Mus musculus

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gcaggcgaca ggcgacgccc ccgcgcagcc cggccactgg ctcttccctc ccgggacaaa 300
cttttctgca agcccttggg ccaaacttgt cgcgcgtcac cgtcgcccag ccgggtccgc 360
gtagagcgct catcttttagc gagatgtctg agcgcaaaga aggcagaggc aaggggaagg 420
gcaagaagaa ggaccgggga tcccgcggga agccgcgcc cgccgaaggc gaccgagcc 480
cagcattgcc tcccagattg aaagagatga aaagccagga gtcagctgca ggctccaagc 540
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acgggaatga gctgaaccgt aggaataaac cacaaaacgt caagatacag aagaagccag 660
ggaagtcaga gtttcgaatc aacaaagcgt ccctggctga ctctggagaa tatatgtgca 720
aagtgatcag caagttagga aacgacagtg cctctgccaa catcaccatt gttgagtcaa 780
acgacctcac cactggcatg tcagcctcaa ctgaaagacc ttatgtgtcc tcagagtctc 840
ccattagaat atcagtttca acagaaggcg caaatacttc ttcattcaca tctacatcca 900
cgactgggac cagccatctc ataaagtgtg cggagaagga gaaaactttc tgtgtgaatg 960
gaggcgagtg cttcatggtg aaggacctgt caaaccctc aagatacttg tgcaagtaag 1020
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gaattgattt tacttttcaa ggttttaggg tgtttttggt tcttgatggg ttgagtattt 1260
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tttttgcctt catatatata attttgcttt cctcctggtg ttccttaata gctactgaaa 1380
gaagtgtgca aatattgtag aaagctgtca ctttgaatcc ctactttttt atcccatgta 1440
ttaattgagc cataaggtac ataaggtaac ttttttttaa cctcagtgct tacctgcaag 1500
gtgaacagga caaatagagg ttgcaagaga gcagaaagtt acctgctaaa gcattttctta 1560
tgctctggat tatggtattg ccccataaatt 1590

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<210> 146
<211> 1630
<212> DNA
<213> Mus musculus

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<400> 146
gactccgggc cgcgccggca gcaggagcgg aacgcagcgc agcggcggca gctgccagga 60
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cagccaccgg agcgaggcca ctccagagcc ggcagcggca ggacccggga cacaagagta 180
gccccgagac acccccagac gtagcgggcg ctccaggtga tcgagtccac gccgctccct 240
gcaggcgaca ggcgacgccc ccgcgcagcc cggccactgg ctcttccctc cggggacaaa 300
cttttctgca agcccttgga ccaaacttgt cgcgcgtcac cgtcgcccag cggggtccgc 360
gtagagcgct catcttttagc gagatgtctg agcgcaaaga aggcagaggc aaggggaagg 420
gcaagaagaa ggaccgggga tcccgcggga agcccgcgcc cgccgaaggc gacccgagcc 480
cagcattgcc tcccagattg aaagagatga aaagccagga gtcagctgca ggctccaagc 540
tcgtgcttcg gtgtgaaacc agctctgagt actcctcact cagattcaaa tggttcaaga 600
acgggaatga gctgaaccgt aggaataaac cacaaaacgt caagatacag aagaagccag 660
ggaagtcaga gcttcgaatc aacaaagcgt ccctggctga ctctggagaa tatatgtgca 720
aagtgatcag caagttagga aacgacagt cctctgccaa catcaccatt gttgagtcaa 780
acgacctcac cactggcatg tcagcctcaa ctgaaagacc ttatgtgtcc tcagagtctc 840
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gaattgattt tacttttcaa ggtttttaggg tgttttgggt tcttgatggg ttgagtattt 1260
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gaagtgtgca aatattgtag aaagctgtca ctttgaatcc ctactttttt atcccatgta 1440
ttaattgagc cataaggtac ataaggtaac ttttttttaa cctcagtgct tacctgcaag 1500
gtgaacagga caaatagagg ttgcaagaga gcagaaagtt acctgctaaa gcattttctta 1560

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tgctctggat tatggtattg ccccataatt agttttcaag acaaatttta agttgccctt 1620  
tctagttact 1630

<210> 147  
<211> 366  
<212> DNA  
<213> Mus musculus

<400> 147  
ttcaaggcac tgctcgtcct tgctcgcact catttgccct tggatcatag gcgatggccc 60  
cagctcctag cctcctgcac taccataa tcgtctgtca cccttttgtt ttttgcagag 120  
ctcacaactg gcatgtcagc ctcaactgaa agaccctatg tgtcctcaga gtctccatt 180  
agaatatcag tttcaacaga aggcgcaaact acttcttcat ccacatctac atccacgact 240  
gggacaagcc atctaataaa gtgtgaggag aaggagaaaa ctttctgtgt gaacggaggc 300  
gagtgttca tggatgaagga cctgtcaaac ccctcaagat acttggtgaa gtaagaaatg 360  
aattcc 366

<210> 148  
<211> 412  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (339)..(339)  
<223> n = undefined nucleotide

<400> 148  
caccggccc aagttgaaga agatgaagag ccagacggga caggtgggtg agaagcaatc 60  
gctgaagtgt gaggcagcag cgataaatcc ccagccttcc taccgttggg tcaaggatgg 120  
caaggagctc aaccgcagcc gagacattcg catcaaataat ggcaacggca gaaagaactc 180  
acgactacag ttcaacaagg tgaagggtgga ggacgctggg gagtatgtct gcgaggccga 240  
gaacatcctg gggaaggaca ccgtacgagg ccggctttac gtcaacagcg tgacgaccac 300  
cctgtcatcc tggtcggggc acgccgggaa gtgcaacgng acagccaagt cctattgcgt 360  
caatggaggc gtctgtact acatcgaggg catcaaccag ctctcctgca ag 412

<210> 149  
<211> 350  
<212> DNA  
<213> Homo sapiens

<400> 149  
ggtcatcttc cagttttgac gtggggcatg aaggagatga ttcctggggc ctagggatag 60  
tctcagtgcg tactggcac atgtctctca taccctcagt gagcaccacc ctgtcatcct 120  
ggtcggggca cggccggaag tgcaacgaga cagccaagtc ctattgcgtc aatggaggcg 180  
tctgtacta catcgagggc atcaaccagc tctcctgcaa gtaagtgacc agtaggggtg 240  
ggcatgggag caagaacagg gtaggagatg ctgggtcaga agtgaggggc tctaggaaaa 300  
gagggttcca agccactgac aagaggtccc caagggtgtg agacaggaag 350

<210> 150  
 <211> 629  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (554)..(554)  
 <223> n = undefined nucleotide

<220>  
 <221> misc\_feature  
 <222> (577)..(577)  
 <223> n = undefined nucleotide

<220>  
 <221> misc\_feature  
 <222> (594)..(594)  
 <223> n = undefined nucleotide

<400> 150  
 gggagtcaag agatggcagt acttggetga aggttggttag tgagagatca atataatcat 60  
 ctggtattat tttccttctg cctggaggac ttgctttaac atttcaagta gtgtgggtct 120  
 gctgctgacg aattcataca aattttatac gacgacatat tccacagagc gatccgagca 180  
 cttcaaacc tgccgagaca aggaccttgc atactgtctc aatgatggcg agtgctttgt 240  
 gatcgaaacc ctgaccgat cccataaaca ctgtcggtaa gccactgagg ccactgatgg 300  
 aaagggcagg cccgttgcaa ggcgtggggg tggagggtgc tggcagcatc tggatatgtgt 360  
 catatccggg atacacacag tcccaccgtt tgaatagcag aattgcgagt cttaatttgg 420  
 aaagggcaag gctgctgcct ctttaacagt ggaagaagac aaaatggaaa caaagtagtt 480  
 acggtttaag ttttacctga ccaagcaaac aaagatttac ttttagatct gcaaagttaa 540  
 tggaaataat tatntacaca ctttagaagc gtctgtntat gatgtggagc ttangcatat 600  
 atcctagtac tcagaaataa tctgttctt 629

<210> 151  
 <211> 595  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n = undefined nucleotide

<400> 151  
 gtgtctgcgg tattcaaaaa cttttgaaac actgcatgtc caacaaaatt tattttttgt 60  
 gtgaatgtaa gtttttattg aggggtactgt ttttcaacct tactctcttg accaagaatg 120  
 aaactattta caaattaaga tgccaacaga tcacgaagag ccctgtgggtc ccagtcacaa 180  
 gtcgttttgc ctgaatgggg ggctntgtta tgtgatacct actattccca gccattttg 240  
 taggaagtga actgatgctg gcttctcttt gtcttattcc aagttgggca tgagattttc 300  
 cctgcattag aaggttgttg agacctgaag cctgggaagg tgcgttgaaa actatacagg 360

agctcgttgt gaagagggtt ttctcccagg ctccagcatc caaactaaaa gtaacctgtt 420  
 tgaagctttt gtggcattgg cggctctagt aacacttatac attggagcct tctacttcct 480  
 ttgcaggaaa ggccactttc agagagccag ttcagtccag tatgatatac acctggtaga 540  
 gacgagcagt accagtgtcc accacagtca tgaacaacac tgaagaaacg tcaaa 595

<210> 152  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 152  
 taagaaataa aggattagat ttttaattct tttacctagt ggtgtttcat tttctgcctt 60  
 tgtaaaataa aaacaatgat ttggttcact ttgacgtttc ttcagtgttg ttcattgactg 120  
 tgggtgggcac tgggtactgct cgtctctacc aggttgatat catactggac tgaactggct 180  
 ctctgaaagt ggccttttct gcaaaggaag tagaaggctc caatgataag tgttactagg 240  
 accgccaatg ccacaaaagc ttcaaacagg ttacttttag tttggatgct ggagcctggg 300  
 agaaaaacct cttcacacg agctcctgta tagttttcaa cgcaccttcc caggcttcag 360  
 gtctcaacaa ctttctaag cagggaaaat ctcatgcca acttggaata agacaaagag 420  
 aagccagcat cagttcactt cctacaaaat gggctgggaa tagtaggtat cacataacaa 480  
 agccccccat tcaggcaaaa cgacttgtga ctgggaccac agggctcttc gtgatctgtt 540  
 ggcat 545

<210> 153  
 <211> 715  
 <212> DNA  
 <213> Homo sapiens

<400> 153  
 gcctgagctg ggcagggggc ggaggcgggg gctcggctgt ctccggggct gccacgcaga 60  
 gcgggcttcg tggcgtggat gaagaaactg aggcacagag ggattaagta gcctgctcaa 120  
 gatcacacag ctagtaagga accaagattc aaacttgggc agtgtgattc agagacttta 180  
 aattcaacgc tggcgcctca ctgcctcaca ctaaaagtga atcagaaaaa taaagaacca 240  
 gcatcaaatt tgaagtggcc acaaatctta ttaaagcaga agaaatagtg gtgaaccata 300  
 aaagataacc agtttctct ctattctgca atttagagga aaaattttca tccaaggaca 360  
 gatcaggtgg tggacctaga tgggaaaccc aaattataat caagagattt cttggtactg 420  
 tttttcaacc ctactctctt gaccaagaat gaaactattt acaaattaag atgccaacag 480  
 atcacgaaga gccctgtggt cccagtcaca agtcgttttg cctgaatggg gggctttgtt 540  
 atgtgatacc tactattccc agcccatttt gtaggaagtg aactgatgct ggcttctctt 600  
 tgtcttattc caagttgggc atgagatttt ccctgcatta gaaggttggt gagacctgaa 660  
 gcctgggaag gtgcgttgaa aactatacag gagctcgttg tgaagagggt tttct 715

<210> 154  
 <211> 669

<212> DNA  
<213> Mus musculus

<400> 154  
gagtgttcaa acacttgtga aacgctgcat gtctagcaaa attttctttt tttatgggaa 60  
tataaatttc tgttgagggtg ctgattttca accttaattc ttccatcaag aatgaaacta 120  
tttaaaaatt aagatgccaa caggtaattt cttatcacga gcagccctgt ggtcccaggc 180  
acaggtcatt ttgcctcaat ggggggattt gttatgtgat ccctactatc cccagcccat 240  
tctgtaggaa gtgaactgtt gctggcttct ctttgcctta ttccaagttg ggtcatgaga 300  
ttttccctgc accctgggaa ggtgcattga aaattacacc ggagcacgct gcgaagaggt 360  
tttttctcca agctccagca tccaagcga aagtaatctg tcggcagctt tcgtggtgct 420  
ggcggtcctc ctcaacttta ccatcgcggc gctctgcttc ctgtgcaggg ccgagtggaa 480  
ctgaccctcc aggacatatg tgagatgcta aaaggaagac taaagaagtg gaagggccac 540  
cttcagaggg ccagttcagt ccaatgtgag atcagcctgg tggaaacaaa caataccaga 600  
acccgtcaca gccacagaaa acactggaaa catacatccc caggggaaggg catcattacc 660  
tacaaaggg 669

<210> 155  
<211> 614  
<212> DNA  
<213> Mus musculus

<400> 155  
gagtgttcaa acacttgtga aacgctgcat gtctagcaaa attttctttt tttatgggaa 60  
tataaatttc tgttgagggtg ctgattttca accttaattc ttccatcaag aatgaaacta 120  
tttaaaaatt aagatgccaa caggtaattt cttatcacga gcagccctgt ggtcccaggc 180  
acaggtcatt ttgcctcaat ggggggattt gttatgtgat ccctactatc cccagcccat 240  
tctgtaggaa gtgaactgtt gctggcttct ctttgcctta ttccaagttg ggtcatgaga 300  
ttttccctgc accctgggaa ggtgcattga aaattacacc ggagcacgct gcgaagaggt 360  
tttttctcca agctccagca tccaagcga aagtaatctg tcggcagctt tcgtggtgct 420  
ggcggtcctc ctcaacttta ccatcgcggc gctctgcttc ctgtgcagga agggccacct 480  
tcagagggcc agttcagtc agtgtgagat cagcctggta gagacaaaca ataccagaac 540  
ccgtcacagc cacagagaac actgaagaca tacatcccca gtgaagggca tcattaccta 600  
caaaggcgga ctgg 614

<210> 156  
<211> 513  
<212> DNA  
<213> Homo sapiens

<400> 156  
ttaagaaata aaggattaga tttttaattc ttttacctag tgggtgtttca ttttctgcct 60  
ttgtaaaata aaaacaatga tttggttcac tttgacgttt cttcagtggt gttcatgact 120  
gtggtgggca ctggtactgc tcgtctctac caggttgata tcatactgga ctgaactggc 180

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tctctgaaag tggcctttcc tgcaaaggaa gtagaaggct ccaatgataa gtgttactag      240
gaccgccccat gccacaaaag cttcaaacag gttactttta gtttgatgc tggagcctgg      300
gagaaaaacc tcttcacaac gagctcctgt atagttttca acgcaccttc ccaggcttca      360
ggtctcaaca accttctaata gcagggaata tctcatgccc aacttggaat aagacaaaga      420
gaagccagca tcagttcact tcctacaaaa tgggctggga atagtaggta tcacataaca      480
aagcccccca ttcaggcaaa acgacttggt act                                     513

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<210> 157
<211> 243
<212> DNA
<213> Sus scrofa

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```

<400> 157
aagagccctg tgggtcccagt cacagggtcat tttgcctgaa tggagggatt tgttatgtga      60
tacctactat tcccagcccc ttttgtagga agtgaactga tgctggcttc tctttgtctt      120
attccaagtt ggggcatgag attttgcttg cattagaagg ttgttgagac ctgaagcctg      180
gtaagggtcat gcagaacatt gaagaaatac catagtgaac tcaaaatcgt tgcttctttg      240
tta                                     243

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<210> 158
<211> 300
<212> DNA
<213> Sus scrofa

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<220>
<221> misc_feature
<222> (111)..(275)
<223> n = undefined nucleotide

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<400> 158
aagagccctg tgggtcccagt cacagggtcat tttgcctgaa tggagggatt tgttatgtga      60
tacctactat tcccagcccc ttttgtagga agtgaactga tgctggcttt ncnttggcct      120
aatnccagnt tgggcatgag atttgcctgc attagaangg tgttgaganc tgaagcctgg      180
taaaggcatg cagaacattg aagaatacnt agtgaactcc aaatcggtgc ttccttggtgta      240
caaaaggcgn aatgnagccc atacggtaaa gatcnatgag ttaatcctcc ttggcccca      300

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```

<210> 159
<211> 2360
<212> DNA
<213> Mus musculus

```

```

<400> 159
ttgtttgttg ttgcatacac caggctgctg gacactgaac ttctggcaat tctcttgtct      60
ctgaccccat ctcttggtag aggtgcactg gactacagac atgtgcccta ctgactggc      120
tatttatgtg gatttgaact cagggtcatca ggctgtgggg cgagtgcctt accctctgaa      180
ctatcttccc agcccctggt gttggcttgt gtctcatgtg ttagggaggt tcagtgcctt      240
catggcactt ggcagtgctt tgtgaggcac cagagagttg gaggccacca tgggtgtgaca      300
tgaccctttg catgtccttc cagctatttc tcaggctgga tacaaagtgc cagggtgcatg      360

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gaaacttcat tatagaggtt caggtaccca ggtcaatggt ttcctcagga actctaagta 420  
 gaaaactaaa ctctagtcag ttgctatta aaaacagatc ccagctcaag cgtcccggga 480  
 ctctttttgt accctggaca tctggttgac agttctcatc cttcaacttg ctgagccctc 540  
 tgggtctcag atcagtagcc agccacatag aagcaaacac tcttttaatc gggacttgg 600  
 ccacccccctt cctcccctaa gacgagggga atactcacac acatgctggc ttctcttcct 660  
 gcacacaaaaa cgggcaggtt ccatggaagc agtactgagt gtgggaatct gggcacttgt 720  
 tgaagtgaga caccactgca gccgccacgg gtgagtctgc tggggcaaag agacatcatc 780  
 agacctggca cagctcacac ccaggaggaa tttctgccct cacctgatgc cttctgcaaa 840  
 actcacgtcc taatgcccag ccagggtcga gagttttcat taagcagtct gtatatTTTT 900  
 ctaagataac aaaataattt ctccaaaggc ttggtataa ttcaaagata gctagttaga 960  
 ttcatTTTgca aaatggcaca cacctgaaat ccagcactc agaaggtaga ggcacaagga 1020  
 tcaggagttc gagggcaacc tagtccatat gtggagtttg aggtcagttg gatctcatta 1080  
 tctccaaccc ccaaaagaag ccaaggaacg gctcagtagg caaagtgtt gctgtgcaaa 1140  
 gatgaggacc tgagcttggc ctccagcacc cacataaaga gacatcacag taaggattgc 1200  
 aactccagca ttctagttcc tggggaacca ctatactgct gaaggcagag ctctatgcct 1260  
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 ctcaacattc tgtgttcaga gtctttgaag gagtcattgt aagcaaaggc agaaacctcc 1380  
 tcaatgacat cccaaagatt cctgccagtg ccccttctcc tgtgtcatca tacagcccaa 1440  
 aagctggggt ccacaccatg aagaaactcc acatgacacc caaaggtttg tctctctgtc 1500  
 cctggagcat agggtgagaa tgagaagcct gctacttctg attctctggt ttctgagcct 1560  
 caagtagttc aggttgccct agaattcact gtgtagccca ggctagtctt gaactcttga 1620  
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 ctttctgctg cccttctcca ggctaagaga agaaaggatg aaggaagagg aatgacaatc 1860  
 catgctatga caactaaatg gtagctaaaa ataaaacaac ctttgcttt aattacagtg 1920  
 atacatacac ttttgaaact tttccagaag ctttctgaa tggcaaagggt agttcactga 1980  
 aactactgac atagaataaaa atccacctta gagaataaag cacatcttaa tcctcaactc 2040  
 atcaagagtc ataaaaacac agcacacacc aatgacatac ttgtgaactt acattcctgt 2100  
 tctaaaaatc aagggtgaat cacattgcaa ccaggaaact gcccttgccct gggactcagg 2160  
 ggcagctgcc aaagcacaga actggtaagt ttacgaggag actccaagtt ccgatatct 2220  
 tcccccaaga ttggaccttt caactctttt tctcttttta ttcttttaaa ttaaaagatg 2280  
 tgtgcgttgt gtgtgttgt ggcacgcgc ttgtgactgc aaatgctgcc aagtgaactt 2340  
 ggacaagcat tactgcatct 2360

<210> 160  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
 gatctgagcc ctgcatcttt cctctcccca gcagaccgc ccgtggctgc agcagtggcg 60  
 tccccattta atgactgccc agattccac actcagttct gcttccatgg aacctgcagg 120  
 tttttggtgc aggaggacaa gccagcatgt gtgtaagtat cccctgttct cctggagatc 180

<210> 161  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<400> 161  
 cagttcagac agaagacaat ccacgtgtgg ctcaagtgtc aataacaaag tgtagctctg 60  
 acatgaatgg ctattgtttg catggacagt gcatctatct ggtggacatg agtcaaaaact 120  
 actgcaggt 129

<210> 162  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
 cagacagaag acaatccacg tgtggctcaa gtgtcaataa caaagtgtag ctctgacatg 60  
 aatggctatt gtttgcatgg acagtgcac tatctggtgg acatgagtca aaactactgc 120

<210> 163  
 <211> 129  
 <212> DNA  
 <213> Mus musculus

<400> 163  
 tagttcagat ggaagacgat ccccggtgtg ctcaagtgtc gattacaaag tgtagttctg 60  
 acatggacgg ctactgcttg catggccagt gcatctacct ggtggacatg agagagaaaat 120  
 tctgcagat 129

<210> 164  
 <211> 1299  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
 gacacagcca acgtgggggc ctttctaggc tgacagccgc tctccagcca ctgccgcgag 60  
 cccgtctgct cccgccctgc ccgtgcactc tccgcagccg ccctccgcca agccccagcg 120  
 cccgtctcca tcgccgatga ccgcggggag gaggatggag atgctctgtg ccggcagggg 180  
 ccctgcgctg ctgctctgcc tgggtttcca tcttctacag gcagtcctca gtacaactgt 240  
 gattccatca tgtatcccag gagagtccag tgataactgc acagctttag ttcagacaga 300  
 agacaatcca cgtgtggctc aagtgtcaat aacaaagtgt agctctgaca tgaatggcta 360  
 ttgtttgcat ggacagtgtc tctatctggt ggacatgagt caaaactact gcaggtaata 420

```

tgtcagaaat aaacaaacac agtttgtaaa attttgtttt atagatttag gggtagaagt 480
gcagatttgc tagtggatat attcagtagt ggtgaagtct gagcttttag agtacctacc 540
cctcaaatag tgtgcatgga acccattagg taatttttca tcccttaacc ccccaaaac 600
tcttctacct tttgaagtct ccagagtcta ttactccact ctctatgaca atgtgtacac 660
attattttagc tcccacttgt gagaacatgt gataaacaaa tgcagtttta ctctttgtat 720
ttctattttt ataatttgaa attaccctat atttccatgg gctgttaaat gcagtatata 780
tattattaga aacttttctg agttttttaa aattaggttag taaatagtag cttttaaatt 840
gcacacatat gtcagagggtg cagagcaggg aggacttctg atgcttctca cacttgccaa 900
gatgggtgtct ctctgctttg gatcttttcc ttcaatttct atatcaggta ttgttttaag 960
aattgattcc aggccggacg cgttgggtca tgcctgtaat cccagcactt tgggaggccg 1020
aggcgggagg atcacgggggt caggagatca agaccatcct ggcgaacacg gtgaaacccc 1080
gtctctacta aaaatacaaa aaaaaaaaaa attagccagg ggtagtggcg gacgcctgaa 1140
gtcccagcta ctccgggaggc tgaggcagga gaatggcatg aaccgggggg gtggagcttg 1200
cagtgcgcgg agatcatgcc actgtactcc agcctgggca acacagcgag actccgtctc 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1299

```

```

<210> 165
<211> 1215
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (554)..(839)
<223> n = undefined nucleotide

```

```

<400> 165
taatacgaag acacagccaa cgtgggggtcc tttctcggct gacagccgct ctccagccac 60
tgccgcgagc ccgtctgtct ccgccctgcc cgtgcactct ccgcagccgc cctccgccaa 120
gccccagcgc ccgtcccat cgccgatgac cgcggggagg aggatggaga tgctctgtgc 180
cggcagggtc cctgcgctgc tgctctgcct gggtttccat cttctacagg cagtcctcag 240
tacaactgtg attccatcat gtatcccagg agagtccagt gataactgca cagcttttagt 300
tcagacagaa gacaatccac gtgtgggtca agtgtcaata acaaagtgtg gctctgacat 360
gaatggctat tgtttgcatg gacagtgcac ctatctggtg gacatgagtc aaaactactg 420
caggtaatat gtcagaaata aacaaacaca gtttgtaaaa ttttgtttta tagatttagg 480
ggtacaagtg cagatttgct agtggatata ttcagtagtg gtgaagactg ctattactcc 540
atgtgcttcc cgcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnggnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnccnnn nnnnnnnncn nngnnnnngn nnnnnngnnn nnnnnnnnnn gttnttttng 840

```

```

aaactttttt tttgaggttt ttaaaaaaat taggggtagt aaaaataggg aggtttttta 900
aaatttgccc caccattatg tccaaaagtg gccacaagtc aggaaaggaa ccttttgagag 960
ggctttttct ccccctttgc ccccggaagg ggggtcctcc tccgggcctt gggaatcttt 1020
tttcccttac attttccaaa attccgggga ttttgttttt taaaaaaatg gagatttccc 1080
cgcgccccgg acgccgtatg gggcttcatt gccctggaaa cccaccccca ctcttttgtg 1140
gggggtcccg aggcaggggg gggggaattc cgcgggggcc ccgggggaaat tacaaacacc 1200
ctccccctgg ggcga 1215

```

```

<210> 166
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (355)..(355)
<223> n = undefined nucleotide

```

```

<400> 166
atcccgggga gaaagccacc cggcccaagt tgaagaagat gaagagccag acgggacagg 60
tgggtgagaa gcaatcgctg aagtgtgagg cagcagcggg taatccccag ccttcctacc 120
gttggttcaa ggatggcaag gagctcaacc gcagccgaga cattcgcac aaatatggca 180
acggcagaaa gaactcacga ctacagttca acaaggtgaa ggtggaggac gctggggagt 240
atgtctcgga ggccgagaac atcctgggga aggacaccgt cggaggccgg ctttacgtca 300
acagcgtgac gaccaccctg tcacctcgtt cggggcacgc ccggaagtgc aacngacag 360
ccaagtccta ttgcgtcaat ggaggcgtct gctactacat cgagggcatc aaccagctct 420
cctgcaaggc acctgggctg cactgcttag aacttggtac ccagagccac cacttcccca 480
tctcagcctc ccctgggttc agccaagggt cctggaacca acttcccaa caccctttgt 540
cagccctcg 549

```

```

<210> 167
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (323)..(323)
<223> n = undefined nucleotide

```

```

<400> 167
agcacagctc tgaggacctg gtgttctgac cgcattctca ccagggtgc cctctcccc 60
gagggtgac aaaggggtgt ggggaagttg gttccaggaa ccttggtgag aaccagggga 120
ggctgagatg ggggaagtgt ggctctgggt accaagttct aagcagtga gccatgtgc 180
cttgaggag agctggttga tgccctcgat gtagtagcag acgcctccat tgacgcaata 240
ggacttggct gtctcgttgc acttccgggc gtgccccgac caggatgaca ggggtgtgct 300

```

cacgctgttg acgtaaagcc ggncccgac ggtgtccttc cccaggatgt tctcggcctc 360  
gc 362

<210> 168  
<211> 458  
<212> DNA  
<213> Mus musculus

<400> 168  
gtgtgaggca gcggcgaggaa acccccagcc ctcttatcgc tggttcaagg atggcaagga 60  
actcaaccgg agtcgtgata ttgcacatcaa gtatggcaat ggcagtgagc accactctgt 120  
catcctgggtc gggacatgcc cggaagtga atgagaccgc caagtcctac tgtgtgaatg 180  
gaggcgtgtg ctactacatc gagggcatca accagctctc ctgcaaaggc tgaggagctg 240  
taccagaaga gagtgctgac aattactggt atctgtgtgg ccctgctggt cgtgggcatc 300  
gtctgtgtgg tcgcctactg caagacaaaa aaacagagga ggcagatgca tcatcatctc 360  
cggcagaaca tgtgcccagc ccaccagaac cgaagcctgg ccaacgggcc agccaccctc 420  
ggctggacca tgaggagacc agatggcaga ttaatctc 458

<210> 169  
<211> 539  
<212> DNA  
<213> Danio rerio

<400> 169  
ccaccagcag agccacgcag atgccagtta tcgtcagcac tcgttttgggt acagctcctc 60  
agcctttagtag aaaccggcca taacggagggt ttgacagcgt tcgccggtat agtcatttgg 120  
acacttgacag gacagctgat ttataccatg tatgaaataa cagtctccac cgttgatgca 180  
gtatgtcttc tcagtttcat tgcacttcct ggcagtactt gagcccggag acaatgtggt 240  
ggttatgett tggacgctga cgaagctggt ggcgttttct ctgcccagcg agttctccac 300  
cacacagggtg tagttcccag aatcctccag tctgactttg ctaatgtgaa gctttgagtt 360  
tttcttggtg gttttgattt tgacggtttt cttttggcga agctggctgc catctttgta 420  
ccagttgaag gaggggctcg ggttgcccac agcttcacac ttcagtgtca actttttacc 480  
ttcctggagc cactgagaat ccatgggctt cacctttgga gctgatgcgc agtctttac 539

<210> 170  
<211> 654  
<212> DNA  
<213> Gallus gallus

<400> 170  
cacgctggga gatgagtgt gtggtgccca gctgtgaggt gcctgggctg gcagtgcctc 60  
tccctctctc cctctgcagg ggaaagaaag aagggaactt ttctttctct gaagtagaag 120  
ttcagatttt gatggtaagg gagctgatgt ggaggccttg ccttaaggaa ggctttcagt 180  
aggcagtaca gtctttggag ctgctgcagc agacctggcg gttgtctacc ttgcaatttg 240  
agtatgacag aagagtagcc tgtggattcc actatactac aacgtattcc actgagcgat 300

```

ctgagcactt taagccatgc aaagacaagg atcttgcata ctgtctcaac gagggggaat 360
gctttgtgat tgaaacctta acaggatcac ataaacactg ccgcagcaat tgcccttctg 420
gtgttttctg ctggtgacct gtctgaatag atgttcttcc agaggtggtt gtggtttggg 480
gcattgatgc tgggaagagg attaccagga agagctcagc tgttccttca ttgctcagtc 540
cacgtttata aagaaggatg gacagtgacc tgtgagcaag cttgtttgca aaagaaagca 600
ttatctgttg gtaacttttg caataaaaaa tatttcttgt attactctaa aaaa 654

```

```

<210> 171
<211> 758
<212> DNA
<213> Gallus gallus

```

```

<220>
<221> misc_feature
<222> (4)..(4)
<223> n = undefined nucleotide

```

```

<400> 171
gcanggcggg aggcgccgcg cggtcgctgt ccgcgggcag acagcggcat tacataaccg 60
cgtacagaga gcagctgcgg gattacacga tgcagattag cggcggcggt gattcagcag 120
atgccctgtg cgtgtgtgag ggggattacg gcggcgcggg gcagaaccgc cgtgcgggtg 180
ccgttttaga agaatagctt ctgaccaaga attagaattg ttggaataat atgcgaacag 240
atcatgaaga actctgtggc accagttatg gatctttttg tctaaatgga ggcatttgct 300
atatgattcc tactgtaccc agtccattct gcagacatct tccgaaagca gcaaaccaag 360
cttcagcctt acataagtca gtcttctcta tcttcgtttt acatacagac accactgcac 420
tcccaagctg ccatttaatg cctgctcatt tctatacgca atgaaagata actagaaaat 480
ccgtatttca aggcstatcct ccatctctac atccctgcaa actacctaag aacaattaga 540
tggaacagga ttgtctacaa cattgttatc acaaaggagg ctatcttatg gatggaattt 600
cttttttctc agatgtatta cttaccagca aggaaggtag ttctgtttga atcttctcaa 660
taaacaccac atttcctgtt tcagggtggg tgggaactat tcttcaaacg gaggaggttt 720
atgtgttcct ttcgttccta taatgtctca ataattgag 758

```

```

<210> 172
<211> 547
<212> DNA
<213> Mus musculus

```

```

<400> 172
gttgctgaag tcctcagtgt tcaaacactt gtgaaacgct gcatgtctag caaaattttc 60
tttttttatg ggaatataaa tttctgttga ggtgctgatt ttcaacctta attcttccat 120
caagaatgaa actatttaaa aattaagatg ccaacagatc acgagcagcc ctgtggtccc 180
aggcacaggt cattttgcct caatgggggg atttgatttg atccctacta tccccacca 240
ttctgtaggt tttatcattt gtttctaaga cattgcctac ttaaaccatt cgtgcaattg 300
ggcaccttgg tgtaccagtg gtttctgaag gagttattcc attgacgcgc cccaagttct 360

```

```

tcacgacagtg gtgttcctga atgcttgaaa tctgttttct gcgaatcctt ggtgggatgg 420
ctagaaacct gtgaaaaatc atgaaatcac caaataccat gtgatgtgta tagtctcttc 480
tcctctccac tgacagctta atcaggggaa agggactgtt gctgcttctc tttgtcttat 540
tcccagt 547

```

```

<210> 173
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 173
cggatgtatc ccaacaccgt cacggaaata ttctgctgac attgcatgtt actgcttcca 60
ggtgctctat atatttgcac tctccgtgaa tgcagaaatt ttgaaattct gcatcacatg 120
gatttttctt ctttctgttt cttctatttt ttccattttt gcctcccttt ttctttcttt 180
tgggtttatc tgaagtattt tcactttccg gcttgtgttg ggcgataaca tca 233

```

```

<210> 174
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (7)..(7)
<223> n = undefined nucleotide

```

```

<400> 174
ccctagntgc caccacacaa tcaaagtggg aaggccactc ctctaggtgc cccaagcaat 60
acaagcatta ctgcatcaaa gggagatgcc gcttcgtggt ggccgagcag acgccctcct 120
gtgtccctct ccggaaacgt cgtaaaagaa agaagaaaga agaagaaatg gaaactctgg 180
gtaaagatat gactcctatc aatgaagata ttgaagagac aaatattgct tataaggcta 240
tgaagttacc tccaggttgg tggcaagctg caaagtgcct tgctcatttg aaaatggaca 300
gaatgctgct caggaaaaca gctagtagac atgaatttta aataatgtat ttacttttta 360
tttgcaactt cagtttgtgt tattattttt taataagaac attaattata tgtatattgt 420
ctagtaattg ggaaaaaagc aactggtag gtagcaacaa cagaaggga atttcaataa 480
cctttcactt aagtattgtc accaggatta ctagtcaaac aaaaaaaaaa aaa 533

```

```

<210> 175
<211> 689
<212> DNA
<213> Mus musculus

```

```

<220>
<221> misc_feature
<222> (671)..(671)
<223> n = any nucleotide

```

```

<400> 175
gcagattatt tgtttaccac ttagaacaca ggatgtcagc gccatcttgt aacgacgaat 60
gtgggggacg ctcccaacac ttcaccatgg ttttgacctt gtcacgacca gttattttct 120

```

```

ggcttatctc cactaatctt gggagcctca gcaccagccc tgagttcata tcacaccacc 180
aaagtctttg acctggaaga gctttaactt cctaagcctc ctgcttcac tgggcagcac 240
tggtaccccg agaatcctgt gtcccttgct tactccatcc tgttctgcag gtcttgcaat 300
tctccactgt gtggtagcag atgggaacac aaccagaaca ccagaaacca atggctctct 360
ttgtggagct cctggggaaa actgcacagg taccaccct agacagaaag tgaaaaccca 420
cttctctcgg tgccccaagc agtacaagca ttactgcac catgggagat gccgcttcgt 480
gggtggacgag caaactccct cctgcatggc ccggtcagc atctacttgt ggagaaactg 540
acgcagactt tcctcctgaa atctgaatat gagaaaccag gtccagttct gccctgctgg 600
tgtccaact cccttggtgca agaaaaggcg attctaactg tgtaggatg ctcgatagtt 660
ccaatcatct nctgggtgtt tcaatgaaa 689

```

&lt;210&gt; 176

&lt;211&gt; 1196

&lt;212&gt; DNA

&lt;213&gt; Cercopithecus aethiops (African green monkey)

&lt;400&gt; 176

```

gcccagcgga atctcttgag tcccaccgcc cagctccggt gccagcgccc agtggccgcc 60
gcttcgaaaag tgactggtgc ctccgccct cctctcggtg cgggaccatg aagctgctgc 120
cgtcgggtgt gctgaagctc cttctggctg cagttctttc ggcactggtg actggcgaga 180
gcctggagca gcttcggaga gggccagctg ctggaaccag caaccggac cttccactg 240
gatctacgga ccagctgcta cgcctaggag gcggccggga ccggaagtc cgtgacttgc 300
aagaggcaga tctggacctt ttgagagtca ctttatctc caagccacaa gcactggcca 360
caccaagcaa ggaggagcac gggaaaagaa agaagaaagg caagggacta gggaagaaga 420
gggacccatg tcttcggaaa tacaaggact tctgcattca cggagaatgc aaatatgtga 480
aggagctccg ggctccctcc tgcattggcag ctgggcagaa agatgttact tgatttgttt 540
ggtttgcct gtgatgaaag aggcctggta gctcagcgtt cagaggccaa aggccagagc 600
tgccaccag gttaccatgg agagaggtgt catgggctga gcctcccagt ggaaaatcgc 660
ttatatacct atgaccatac aactatcctg gctgtggtgg ccgtggtgct gtcctctgtc 720
tgtctgctgg tcatcgtggg gcttctcatg tttagggtacc ataggagagg tggttatgat 780
gtggaaaacg aagagaaagt gaagttgggc atgactaatt cccactgaga gacttgtgct 840
caaggaatca gctggtgact gctacctctg agaagacaca aggtgatttc agattgcaga 900
ggggaaagac gtcacatcta gccacaaaga ctccctcatc cccagtcgcc atctaggatt 960
gggcctccca taattgcttt gccaaaatac cagagccttc aagtgccaaa ccgagtatgt 1020
ctgatagtat ctgggtgaga agaaagcaaa agcaaggagc cttcatgccc ttctgattcc 1080
cctccaccaa gcccacttc cccttataag tttgtttaag cactcacttc tggattagaa 1140
tgccggttaa attccatatg ctccaggatc tttgactgaa aaaaaaaaaa aaaaaa 1196

```

&lt;210&gt; 177

<211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 acgggggtccg agaaagttaa gcaactacag gaaatggctt tgggagttcc aatatcagtc 60  
 tatcttttat tcaacgcaat gacagcactg accgaagagg cagccgtgac tgtaacacct 120  
 ccaatcacag cccagcaagc tgacaacata gaaggaccca tagccttgaa gttctcacac 180  
 ctttgcctgg aagatcataa cagttactgc atcaacggtg cttgtgcatt ccaccatgag 240  
 ctagagaaag ccatctgcag gtgtctaaaa ttgaaatcgc cttacaatgt ctgttctgga 300  
 gaaagacgac cactgtgagg cttttgtgaa gaattttcat caaggcatct gtagagatca 360  
 agtgagccca aaattaaagt ttccagatga aacaacaaaa cttgtcaagc tgactagact 420  
 cgaaaatatg gaaagttggg gatcacaatg aaatgagaag ataaaatcag cgggtggcct 480  
 tagactttgc catcttaag gagtgatgga agccaagtga acaagcctca gtgacacaag 540  
 tcaaattcat aggttcactc tggg 564

<210> 178  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 ggcacgaggg aggctctttg ttatagatgc ttttgcccc ttaatacagc aatgagagca 60  
 ctgaccgaag aggcagccgt gactgtaaca cctccaatca cagcccagca agctgacaac 120  
 atagaaggac ccatagcctt gaagtctca cacccttgcc tggaagatca taacagttac 180  
 tgcataacg gtgcttgatg attccaccat gagctagaga aagccatctg cagggtgtcta 240  
 aaattgaaat cgccttaca tgtctgttct ggagaaagac gaccactgtg aggcctttgt 300  
 gaagaatttt catcaaggca tctgtagaga tcagttagcc caaaattaaa gttttcagat 360  
 gaaacaacaa aacttgtcaa gctgact 387

<210> 179  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 179  
 ggcacgagga aagttaagca tctacaggtt atggctttgg gaggttccat atcagtctat 60  
 cttttattca acgcaatgac agcactgacc gaagaggcag ccgtgactgt aacacctcca 120  
 atcacagccc agcaaggtaa ctggacagtt aacaaaacag aagctgacaa catagaagga 180  
 cccatagcct tgaagttctc acacctttgc ctggaagatc ataacagtta ctgcatcaac 240  
 ggtgcttgat cattccacca tgagctagag aaagccatct gcagggtgtct aaaattgaaa 300  
 tcgccttaca atgtctgttc tggagaaaga cgaccactgt gaagcctttg tgaagaattt 360  
 tcatcaaggc atctgtagag atcagttag 389

<210> 180  
 <211> 409

<212> DNA  
 <213> Homo sapiens

<400> 180  
 aactacagga aatggctttg ggagttccaa tatcagtcta tctttttattc aacgcaatga 60  
 cagcactgac cgaagaggca gccgtgactg taacacctcc aatcacagcc cagcaagctg 120  
 acaacataga aggaccata gccttgaagt tctcacacct ttgcctggaa gatcataaca 180  
 gttactgcat caacggtgct tgtgcattcc accatgagct agagaaagcc atctgcaggt 240  
 gtctaaaatt gaaatcgctt tacaatgtct gttctggaga aagacgacca ctgtgaggcc 300  
 tttgtgaaga attttcatca aggcattctg tagagatcaa gtgagcccaa aattaaagtt 360  
 ttcagatgaa acaacaaaac ttgtcaagct gactagactc gaaaatatg 409

<210> 181  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 181  
 ccgtcagtct agaaggataa gagaaagaaa gttaagcaac tacaggaaat ggctttggga 60  
 gttccaatat cagtctatct tttattcaac gcaatgacag cactgaccga agaggcagcc 120  
 gtgactgtaa cacctccaat cacagcccag caaggtaact ggacagttaa caaacagaa 180  
 gctgacaaca tagaaggacc catagccttg aagttctcac acctttgcct ggaagatcat 240  
 aacagttact gcatcaacgg tgcttgtgca ttccaccatg agctagagaa agccatctgc 300  
 aggtgtctaa aattgaaatc gccttacaat gtctgttctg gagaaagacg accactgtga 360  
 ggcctttgtg aagaattttc atcaaggcat ctgtagagat cagtgaagccc aaaattaaag 420  
 ttttcagatg aaacaacaaa acttgtcaag ctgactagac tcgaaaataa tgaaagttag 480  
 gatcacaaatg aaatgagaag ataaaattca gcgttggcct ttagactttg ccatccttaa 540  
 ggagtgatgg aagccaagtg aacaagcc 568

<210> 182  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 182  
 atggcttttg gagttccaat atcagtctat cttttattca acgcaatgac agcactgacc 60  
 gaagaggcag ccgtgactgt aacacctcca atcacagccc agcaagctga caacatagaa 120  
 ggacccatag ccttgaagtt ctcacacctt tgcctggaag atcataacag ttactgcatc 180  
 aacggtgctt gtgcattcca ccatgagcta gagaaagcca tctgcaggtg tctaaaattg 240  
 aaatcgccctt acaatgtctg ttctggagaa agacgaccac tg 282

<210> 183  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 183

Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His  
 1 5 10 15

Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Lys  
 20 25 30

<210> 184  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 184

Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn  
 1 5 10 15

Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys  
 20 25 30

<210> 185  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 185

Asn Ser Tyr Pro Gly Cys Pro Ser Ser Tyr Asp Gly Tyr Cys Leu Asn  
 1 5 10 15

Gly Gly Val Cys Met His Ile Glu Ser Leu Asp Ser Tyr Thr Cys Lys  
 20 25 30